UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,171	12/21/2001	Yau Wei Lucas Hui	851663.430USPC	1982
	7590 02/10/200 CTRONICS, INC.	EXAMINER		
MAIL STATION 2346			RAO, ANAND SHASHIKANT	
1310 ELECTRONICS DRIVE CARROLLTON, TX 75006			ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			02/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/914,171	HUI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Andy S. Rao	2621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period variety between the period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>23 Ja</u> This action is <b>FINAL</b> . 2b)☑ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4)	vn from consideration.	n.		
Application Papers				
9) The specification is objected to by the Examine  10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the contract	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)	4) 🗖 Interview Surrens	(PTO 412)		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ite		

Application/Control Number: 09/914,171 Page 2

Art Unit: 2621

#### **DETAILED ACTION**

## Response to Entered Amendment After Final

1. As per the applicant's instructions filed on 1/23/09, claims 3-14, 17, 22, 25, 28, have been canceled.

2. The finality of the rejection of the last Office action is withdrawn, so that a new grounds of rejection can be brought forth against pending claims 1-2, 23-24, 26-27, 29-36 as follows below.

# Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1-2, 23-24, 26-27, 29-36 are rejected under 35 U.S.C. 101 as not falling within one of four statutory categories of inventions. Supreme Court precedent and recent Federal Circuit decisions indicate a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. While the instant claim(s) recite a series of steps or acts to be performed, the claim(s) neither transform underlying subject matter nor positively tie to another statutory category that accomplishes the claimed method steps, and therefore do not qualify as a statutory process. For example there is not apparatus mentioned either in the preamble nor in the subsequent limitations for executing the method, nor is the

Art Unit: 2621

create of a first and second frame of the determination of "moving pixels" considered transforming the signals, *In re Bilski*, 88 USPQ2d 1385 (Fed. Cir. 2008).

## Allowable Subject Matter

### 5. Claims 15-16 and 18-21 remain allowed.

The Applicant's arguments directed towards the features in these claims have been considered persuasive with regards to the tertiary Roeder reference. In particular, the Examiner notes that independent claims 15 is directed towards a method for detecting field characteristics of video data and further recites "...a first subtractor receiving a pixel of said first field and a first pixel of said second field and calculating a first pixel difference; a second subtractor receiving said pixel of said first field and a second pixel of said second field and calculating a second pixel difference; and a comparator selecting a smaller pixel difference between said first and second pixel differences, wherein the accumulator means accumulates said smaller pixel difference..." which is a feature that is not anticipated nor obvious over the art of record. Independent claim 18 is directed towards a method for detecting field characteristics of video data and further recites "...a moving pixel counter having inputs connected to said input means and the output of said second field memory, and an output connected to said interlaced/progressive decision unit, said moving pixel counter counting moving pixels between said second and third fields and to obtain a count value of the moving pixels, wherein said progressive/interlace decision means includes means for comparing said count value of moving pixels with a moving pixel threshold, and means for defining said first and third fields as progressive if said count value of moving pixels is lower than said moving pixel threshold, and

Art Unit: 2621

for defining said first and third fields as interlaced if said count value of moving pixels is not lower than said moving pixel threshold..." which is a feature that is not anticipated nor obvious over the art of record. Dependent claims 16 and 19-21 are allowed for the reasons concerning the independent claims.

6. Claims 1-2, 23-24, 26-27, 29-36 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action.

Independent claim 1 is directed towards a method of processing video data to detect field characteristics of the data, which further recites "...and calculating the number of moving pixels between said second and third fields, wherein the determining step determining that said first field is an interlaced field if said number lower than a moving pixel threshold, and determining that said first and third fields are progressive if said number is not lower than the moving pixel threshold..." which are features that are not anticipated nor obvious over the art of record. Independent claim 23 is directed towards a method for detecting field characteristics of video data and further recites "...calculating pixel differences between the pixel of said first field and two pixels of said second field; selecting a smaller pixel difference between said pixel differences; and accumulating said smaller pixel difference..." which is feature that is not anticipated nor obvious over the art of record. Independent claim 27 is directed towards a method of processing video data to detect field characteristics of the data, and further recite "...for each of a plurality of sub-blocks of said first and third fields: detecting a moving region by repeating said moving pixel detection for pixels of the sub-block; if the number of interlaced pixels in said sub-block is higher than a region threshold said sub-block is considered interlaced; and, if more than one sub-block is found interlaced, then said first and third fields are considered

Art Unit: 2621

Independent claim 31 is directed towards a method for detecting field characteristics of video data and further recites "...determining whether the pixel count value is less than a moving pixel count threshold; and determining whether the first field is an interlaced field or a progressive field with respect to the third field based on whether the pixel count value is less than the moving pixel count threshold..." which is a feature that is not anticipated nor obvious over the art of record. Dependent claims 2, 24, 26, 29-30, 32-36 are allowed for the reasons concerning the independent claims. Accordingly, if claims 1, 23, 27, and 31 are amended to overcome the rejections under 35 U.S.C. 101, the application would be placed in a condition for allowance.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/914,171 Page 6

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andy S. Rao Primary Examiner Art Unit 2621

asr /Andy S. Rao/ Primary Examiner, Art Unit 2621 February 9, 2009